

Sub B1

24. A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

- (a) tuning the terminal to a best-effort carrier;
- (b) establishing a packet data communication over the best-effort carrier using the terminal; and
- (c) periodically tuning the terminal to an all-service carrier for a limited time in order to check for incoming all-service communications.

25. The method of claim 24, further comprising:

- (d) establishing an all-service communication over the all-service carrier when an incoming all-service communication is detected in step (c); and
- (e) tuning the terminal back to the best-effort carrier when the all-service communication is terminated.

26. The method of claim 25, wherein step (d) further comprises:

- (f) sending a packet hand-over request from the terminal to transfer the packet data communication from the best-effort carrier to the all-service carrier;
- (g) handing the packet data communication over to the all-service carrier from the best-effort carrier; and
- (h) establishing the all-service communication over the all-service carrier, while also maintaining the packet data communication over the all-service carrier.

27. The method of claim 26, further comprising:

- (i) tuning the terminal back to the best-effort carrier when the all-service communication is terminated;
- (j) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the best-effort carrier;
- (k) handing the packet data communication over to the best-effort carrier from the all-service carrier.

28. The method of claim 27, wherein the terminal is configured to optionally establish the all-service communication.

29. The method of claim 24, wherein the all-service communication includes at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

30. The method of claim 24, wherein the all-service carrier comprises an 1xRTT carrier.

31. The method of claim 24, wherein the best-effort carrier comprises an HDR carrier.

32. A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

- (a) tuning the terminal to a best-effort carrier;
- (b) establishing a packet data communication over the best-effort carrier using the terminal;
- (c) while the packet data communication is in progress, tuning the terminal to an all-service carrier; and
- (d) establishing all-service communication on the all-service carrier.

33. The method of claim 32, further comprising:  
(e) tuning the terminal back to the best-effort carrier when the all-service communication is terminated in order to complete the packet data communication.

34. The method of claim 32, wherein step (d) further comprises:  
(f) sending a packet hand-over request from the terminal to transfer the packet data communication from the best-effort carrier to the all-service carrier;

(g) handing the packet data communication over to the all-service carrier from the best-effort carrier; and

(h) establishing the all-service communication over the all-service carrier, while also maintaining the packet data communication over the all-service carrier.

35. The method of claim 34, further comprising:

(i) tuning the terminal back to the best-effort carrier when the all-service communication is terminated;

(j) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the best-effort carrier;

(k) handing the packet data communication over to the best-effort carrier from the all-service carrier.

36. The method of claim 32, wherein the all-service communication is at least one of the following:

(a) a voice communication;

(b) a SMS communication; and

(c) a broadcast information communication.

37. The method of claim 32, wherein the all-service carrier comprises an 1xRTT carrier.

38. The method of claim 32, wherein the best-effort carrier comprises an HDR carrier.

39. A method of wireless communication employing a terminal, the terminal configured to tune either to a best-effort carrier or an all-service carrier, the method comprising:

(a) periodically scanning for a best-effort carrier;

(b) tuning the receiver to an all-service carrier;

(c) establishing a packet data communication on the all-service carrier after tuning in step (b);

- (d) periodically scanning for a best-effort carrier once the terminal is tuned to the all-service carrier;
- (e) if a best-effort carrier is available, tuning the terminal to the best-effort carrier; and
- (f) establishing the packet data communication on the best-effort carrier.

40. The method of claim 39, wherein the packet data communication on the all-service carrier is terminated prior to step (e).

41. The method of claim 39, wherein step (f) further comprises:

- (g) sending a packet hand-over request from the terminal to transfer the packet data communication from the all-service carrier to the second best-effort carrier; and
- (h) handing the packet data communication over to the second best-effort carrier from the all-service carrier.

42. The method of claim 39, wherein the all-service carrier comprises an 1xRTT carrier, and wherein the best-effort carrier comprises an HDR carrier.

43. A terminal for wireless communication, comprising:  
a transceiver configured to selectively tune to a best-effort carrier or to an all-service carrier; and  
a processor configured to periodically tune the transceiver to the all-service carrier to check for an incoming all-service communication while a packet data communication is occurring over the best-effort carrier and to tune the terminal to the all-service carrier and establish an all-service communication over the all-service carrier when an incoming all-service communication is detected.

44. The terminal of claim 43, wherein the processor is further configured to tune to an all-service carrier when best-effort carriers are unavailable and to periodically scan for best-effort

carriers until one is available, and wherein the processor is configured to tune to a best-effort carrier when one is available.

45. The terminal of claim 43, wherein the processor is further configured to tune to an all-service carrier, while a packet data communication is taking place over a best-effort carrier, and establish an all-service communication over the all-service carrier.

46. The terminal of claim 43, wherein the processor is further configured to initiate a packet hand-over request in order to transfer packet data communications from a best-effort carrier to an all-service carrier, or to transfer packet data communications from an all-service carrier to a best-effort carrier.

47. The terminal of claim 43, wherein the all-service communication is at least one of the following:

- (a) a voice communication;
- (b) a SMS communication; and
- (c) a broadcast information communication.

48. The terminal of claim 43, wherein the all-service carrier comprises an 1xRTT carrier.

49. The method of claim 43, wherein the best-effort carrier comprises an HDR carrier.

50. The terminal of claim 43, wherein the all-service carrier supports real-time and non-real-time services, and wherein the best-effort carrier supports only non-real-time services.

51. The terminal of claim 50, wherein the all-service carrier is optimized for circuit switched services, and wherein the best-effort carrier is optimized for best effort packet data services.

52. The terminal of claim 51, wherein the control and data channel in the best-effort carrier are time multiplexed.

53. A wireless communication network, comprising:  
an all-service carrier configured to carry all-service communications and packet data communications;

a best-effort carrier configured to carry packet data communications; and

a plurality of terminals configured to periodically tune to the all-service carrier to check for an incoming all-service communication while a packet data communication is occurring over the best-effort carrier and to tune to the all-service carrier and establish an all-service communication over the all-service carrier when an incoming all-service communication is detected.

54. The network of claim 53, wherein each terminal is further configured to initiate a packet hand-over request in order to transfer packet data communications from a best-effort carrier to an all-service carrier, or to transfer packet data communications from an all-service carrier to a best-effort carrier.

55. The network of claim 54, wherein each hand-over request will contain information about a target BSC associated with the all-service or best-effort carrier that is the target of the hand-over.

56. The network of claim 53, wherein the all-service carrier supports real-time and non-real-time services, and wherein the best-effort carrier supports only non-real-time services.

57. The network of claim 56, wherein the all-service carrier is optimized for circuit switched services, and wherein the best-effort carrier is optimized for best effort packet data services.

58. The network of claim 57, wherein the control and data channel in the best-effort carrier are time multiplexed.